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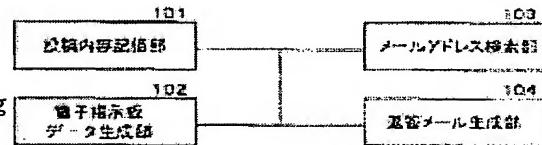
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(54) ELECTRONIC BULLETIN BOARD SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To solve the problem that a conventional bulletin board system requires that a mail address should be made open to get a reply.

SOLUTION: This system has a means which gives a contributing ID to bulletin data, a title, and an address contributed to a bulletin board and a main address retrieval part which retrieves the mail address of a contributor from a registered ID sent through the replying operation of a browsing requester; and bulletin contents are sent to the browsing requester while having the contributor mail address kept secret, the mail address of the contributor is retrieved according to the registered ID sent through the replying operation when the browsing requester requests a reply, and reply mail is sent from an answerer to the obtained address, so that the contributor can gets the reply without making the mail address open on the Internet.



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CLAIMS

[Claim(s)]

[Claim 1]The contents storage parts store of contribution which relates a contributor name, a contributor mail address, and the contents of contribution with contribution ID, and memorizes them, A contributor name and the contents of contribution which were memorized by contribution storage parts store, and an electronic bulletin board data generating part which generates electronic bulletin board data from contribution ID, A bulletin board system having a mail address retrieval part which takes out a contributor mail address from contribution ID with reference to the contents storage parts store of contribution, and an answer mail generation part which generates mail passed to a contributor from answer mail from an answer person.

[Claim 2]The contents storage parts store of contribution which memorizes a contributor name, a contributor mail address, the contents of contribution, and contribution ID, A means to give contribution ID to the contents data of a notice and a title which were contributed to an electronic bulletin board by E-mail, and an address, A means to respond to given contribution ID, and to memorize and manage the contents data of a notice, a title, and an address, An electronic bulletin board memory which relates the contents data of a notice, and a title with contribution ID, and stores them, When an inspection client considers an answer request as a mail address retrieval part which searches a mail address based on contribution ID, and a means to transmit the contents of the electronic bulletin board memory to an inspection client, A means by which a mail address retrieval part searches a contributor's mail address with reference to the contents storage parts store of registration from registration ID sent by an inspection client's replying operation, A server having a means to transmit the contents data of a notice and a title which are sent by inspection client, and an address to an address of the contributor concerned.

[Claim 3]A bulletin board system comprising:

A server which provides electronic bulletin board service by transmitting HTML data of a Web page which provided an electronic bulletin board via the Internet.

It is an electronic bulletin board system constituted with a terminal which connects with the server, receives said HTML data, and receives offer of said electronic bulletin board service by said Web page, Said server stores in the contents storage parts store of contribution data of a message sentence or a picture sent from a terminal with a contribution demand, While giving peculiar contribution ID for every affair of each contribution, a contributor's address and contribution ID are associated and memorized, When a contribution demand is made from a terminal, a server outputs data of an account of the contents of contribution to a terminal of inspection request origin by HTML form, it is a receptacle about an answer request about an affair of a terminal to a certain contribution -- a means to transmit the contents data of an answer which searches a contributor's mail address based on contribution ID of the affair concerned to a case, and is sent from an answer client's terminal, and a title to an address of the contributor concerned.

[Claim 4]A server which provides electronic bulletin board service by transmitting HTML data of a Web page which provided an electronic bulletin board characterized by comprising the following via the Internet, An electronic bulletin board system constituted with a terminal which connects

with the server, receives said HTML data, and receives offer of said electronic bulletin board service by said Web page.

The contents storage parts store of contribution which memorizes a contributor name, a contributor mail address, the contents of contribution, and contribution ID.

Electronic bulletin board CGI which performs processing which divided a demand transmitted from a terminal into a character which can be understood by a program, and followed a demand. A registration processing section which relates with the contents data of the notice with which message registration, a message inspection, an answer, etc. are processed, and which was both contributed, or an address, and gives contribution ID according to a command of said electronic bulletin board CGI.

HTML falsework only for a terminal which operates a Web page of an electronic bulletin board orthopedically according to a size of a display screen of one sheet of a display of a terminal, An electronic bulletin board memory part for storing electronic bulletin board data containing a contributor name, the contents text data of contribution, etc. with which an inspection is presented, and a HTML output processing part which outputs an HTML file to a terminal.

[Translation done.]

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DETAILED DESCRIPTION**[Detailed Description of the Invention]****[0001]**

[Field of the Invention]This invention relates to a bulletin board system.

[0002]

[Description of the Prior Art]In recent years, the convenience of an E-mail function is evaluated and the companies and general users who use an E-mail function are increasing in number. E-mail is the tool optimal as a means which transmits and receives a message on the computer connected on the network.

Explosive spread is accomplished in the world of a network, especially the Internet.

The opportunity to use E-mail also in an ordinary home is increasing as spread at the home of the Internet progresses.

[0003]However, in order to generally use the personal computer about use and to use it, a know how is required, and the user who is not detailed cannot use an E-mail function for a personal computer easily. Then, the user who is not detailed is also realizing service which enabled it to use an E-mail function easily in a personal computer. That is, the dedicated server made into connection Kano is installed in the Internet, a dedicated server is connected to a portable E-mail terminal by the portable telephone network and the Digital Communications Division circuit, and it carries out Aksu possible [of the portable E-mail terminal] to the Internet via a dedicated server. One of the functions used on the Internet has an electronic bulletin board, and it is spreading through an office, a school, etc. widely. By providing an electronic bulletin board function into a dedicated server, the exchange of information can be performed among other connectable terminals via the Internet between two or more portable E-mail terminals using an electronic bulletin board.

[0004]

[Problem(s) to be Solved by the Invention]In the conventional electronic bulletin board, the contributor exhibits his mail address to get a reply. However, once it exhibits a mail address, it will be expected that mischievous mail comes forever. It is also expected that the open address is used for DM mail. Thus, since continuously troublesome mail may have come only by exhibiting a mail address once, there was a problem that active practical use of an electronic bulletin board was checked.

[0005]

[Means for Solving the Problem]When a bulletin board system manages a contributor's mail address, a mail address is not displayed on an electronic bulletin board. An answer person sends a reply through a bulletin board system rather than sends a reply to a contributor directly.

[0006]

[Embodiment of the Invention]The contents storage parts store of contribution this invention remembers a contributor name, a contributor mail address, the contents of contribution, and contribution ID to be in addition to the conventional bulletin board system, The contributor name and the contents of contribution which were memorized by the contribution storage parts store, and the electronic bulletin board data generating part which generates electronic bulletin board data from contribution ID, The mail address retrieval part which takes out a contributor mail

address from contribution ID with reference to the contents storage parts store of contribution. It has composition provided with the answer mail generation part which generates the mail passed to a contributor from the answer mail from an answer person, and has the operation that a reply can be sent to a contributor, without exhibiting a contributor's mail address.

[0007]It explains referring to Drawings for an embodiment of the invention below.

[0008](Embodiment 1) Drawing 1 is a block diagram showing the bulletin board system of this invention. In drawing 1, 101 is the contents storage parts store of contribution which associates and memorizes the contents of contribution, a contributor name, a contributor mail address, and contribution ID. 102 is an electronic bulletin board data generating part which generates electronic bulletin board data from the contributor name and the contents of contribution which were memorized by the contents storage parts store 101 of contribution, and contribution ID. 103 is a mail address retrieval part which takes out a contributor mail address from contribution ID with reference to the contents storage parts store 101 of contribution. 104 is an answer mail generation part which generates the mail passed to a contributor from the answer mail from an answer person.

[0009]Drawing 2 is a device block figure of the bulletin board system of this invention. 201 is read-only memory (ROM). The contents storage parts store 101 of contribution is realized by RAM202. 202 is random access memory (RAM). 203 is a central arithmetic unit (CPU). The electronic bulletin board data generating part 102, the mail address retrieval part 103, and the answer mail generation part 104 are realized because CPU203 executes the program stored in ROM201 and performs an exchange of ROM201 and RAM202, and data.

[0010]The operation is explained below about the bulletin board system constituted as mentioned above. Drawing 3 is a flow chart when contributing to the bulletin board system of this invention. First, mail of the contents of contribution is received from a contributor (Step 301). The contributor's mail address, contributor name, and contents of contribution are included in this mail.

[0011]Next, the contents of the received contribution mail are recorded on the contents storage parts store 101 of contribution. The contents of record are as unique contribution ID as a contributor's mail address, a contributor name, and the contents of contribution (Step 302). Next, the electronic bulletin board data generating part 103 generates the text or image data displayed on an electronic bulletin board from a contributor name, the contents of contribution, and unique contribution ID (Step 303). Finally, the data generated at Step 303 is displayed on an electronic bulletin board (Step 304).

[0012]Drawing 4 is a flow chart when taking out an answer to the contents of contribution of the bulletin board system of this invention. First, answer mail is received from an answer person. An answer person's mail address, the contents of answer mail, and registration ID are included in this mail (Step 401). Next, the mail address retrieval part 103 searches a contributor's mail address with reference to the contents storage parts store 101 of registration from registration ID obtained at Step 401 (Step 402). Next, the answer mail generation part 104 generates the answer mail sent to a contributor from the answer person's mail address and contents of registration which were acquired at Step 401 (Step 403). It transmits to the mail address of the contributor who finally searched with Step 402 the answer mail generated at Step 403 (Step 404).

[0013]It is limited only to the period when contribution is put up for the electronic bulletin board that an answer comes by this system. For this reason, he feels easy and can use an electronic bulletin board.

[0014](Embodiment 2) Drawing 5 is a schematic diagram showing the bulletin board system in the embodiment of the invention 2. Hereafter, the case where it applies to a portable E-mail terminal is explained. 1 is a portable E-mail terminal and 1a is an indicator of the portable E-mail terminal 1. The portable E-mail terminal 1 is provided with the editor for creating and correcting the browser for accessing the mailer for transmission and reception of E-mail, and the information on an electronic bulletin board or the Internet, the menu only for server service, GUI only for registration, and e-mail and the contents of electronic bulletin board contribution. It is a portable telephone, it is connected to the portable E-mail terminal 1, and 2 is used in order to

communicate via a portable telephone network. 3 is a dedicated server (it is hereafter considered as the server 3) which cooperates with a portable E-mail terminal and realizes various services. As for 4, a digital channel and 6 are the Internet a portable telephone network and 5, 7 is other communication terminals which can communicate via the Internet 6.

[0015]The bulletin board system in the embodiment of the invention 2 connects the portable E-mail terminal 1 and the server 3 which are shown in drawing 5, and provides electronic bulletin board service by transmitting the HTML data of the Web page which provided the electronic bulletin board from the server 3 to the portable E-mail terminal 1. Thus, in the system using the Web server which provides HTML data, many CGI (Common Gateway Interface) art is used. CGI is a method for making WWW generate a document dynamically. CGI performs processing for which it opted by the server side to the demand from the user side, and performs processing in which an HTML file is returned as a result of the processing.

[0016]In the server 3, 38 is the contents storage parts store of contribution which memorizes a contributor name, a contributor mail address, the contents of contribution, and contribution ID. 37 is electronic bulletin board CGI which performs processing which divided the demand transmitted from the portable E-mail terminal 1 into the character which can be understood by a program, and followed the demand. Processing of registration of a message, an inspection, an answer, etc. is performed by control of electronic bulletin board CGI37.

[0017]39 is a registration processing section which processes "message registration", "a message inspection", a "answer", "deletion", etc. according to the command of electronic bulletin board CGI37. Accessing a text file, a graphics file, etc. which are saved at the contents storage parts store 38 of contribution in the server 3, it is related with the contents data of a notice, title, and address which were contributed, the registration processing section 39 gives, memorizes contribution ID and the address which were given and manages contribution ID. 40 is HTML falsework which operates a page orthopedically according to the indicator of the portable E-mail terminal 1, and operates the Web page of an electronic bulletin board orthopedically according to the size of the display screen of one sheet of the display of the portable E-mail terminal 1. 42 is an electronic bulletin board memory part for storing the electronic bulletin board data containing only the contributor name, the contents text data of contribution, and the image data with which an inspection is presented.

[0018]Here, fundamental processing of the server application constituted by the portable E-mail terminal 1 (user) and the server 3 is explained. First, the demand of "message registration", "a message inspection", etc., etc. is transmitted to the server 3 specified with the menu only for server service displayed on the browser on a portable E-mail terminal. At this time, connection with the specified server 3 is made by referring to access URL data. Electronic bulletin board CGI37 on the server 3 starts processing according to the demand transmitted from the portable E-mail terminal. The registration processing section 39 processes according to directions of electronic bulletin board CGI37, it relates with an address further, and contribution ID is given. The registration processing section 39 takes out only a contributor name, the contents text data of contribution, and image data from each data by which the registration request was carried out, generates electronic bulletin board data, and stores it in the electronic bulletin board memory part 42 with contribution ID. It will be read and sent out in the case of an inspection of the data stored in this electronic bulletin board memory part 42 of this.

[0019]The HTML falsework 40 only for a terminal operates the Web page of an electronic bulletin board orthopedically from the data stored in the electronic bulletin board memory part 42, and creates the HTML file which is a final processing result. An end of processing by electronic bulletin board CGI37 will output an HTML file to the portable E-mail terminal 1 by the HTML output processing part 41. The portable E-mail terminal 1 displays on a browser the HTML file which is a processing result by this server 3.

[0020]Next, each process flow of the portable E-mail terminal which constitutes the bulletin board system in the embodiment of the invention 2, and the server 3 is explained according to drawing 6 and drawing 7. The flow chart and drawing 7 in which processing according [drawing 6] to a portable E-mail terminal is shown are a flow chart which shows processing by the server 3.

[0021]In drawing 6, the portable E-mail terminal 1 is started first (S1). A user will display the menu only for server service on a display, if "electronic bulletin board service" display button on the menu currently displayed on the display of the started portable E-mail terminal 1 is clicked (S2). In the registration to an electronic bulletin board, an applicable button is clicked and the screen for message registration (GUI only for registration) is displayed (S3).

[0022]Next, a user writes in a message sentence to register into the message input part in GUI only for registration (S4). The picture registered into an electronic bulletin board is chosen from the graphics files saved in the portable E-mail terminal 1 by clicking the image taking button currently displayed on GUI only for registration to register a picture into the electronic bulletin board of the server 3 together with a message sentence (S5). Then, the button 18 which starts the registration processing currently displayed on GUI only for registration is clicked, and register operation to the server 3 is performed (S6).

[0023]Instructions of a communication start are sent to the portable telephone side that the portable E-mail terminal 1 should acquire automatically the address (URL) of the server 3 with which the electronic bulletin board used as a registration destination exists according to the register operation to this server 3 (S7), and should connect it to this acquired URL. If there is a response of line connection completion from a portable telephone, the portable E-mail terminal 1 will be automatically connected to the server 3 of applicable URL via the portable telephone network 4 and the digital communication network 5 (S8). If connection is completed, the portable E-mail terminal 1 will transmit the data of the message sentence for contribution, or a picture to the server 3 by HTTP with a contribution demand (S9).

[0024]Continuously, the processing (S10) by the side of a server is explained. Drawing 7 is a flow chart which shows the processing by the side of a server. The server 3 performs data receiving by HTTP (S11). Next, electronic bulletin board CGI37 is started, while analyzing the data transmitted from the portable E-mail terminal 1, an applicable program or module (the registration processing section 39, the HTML falsework 40 only for a terminal, HTML output processing part 41) is started, and processing is started (S12).

[0025]In the case of the new registration to an electronic bulletin board (S13), in the registration processing section 39, the processing which should be performed adds the data of the contents of contribution which has newly been transmitted to the contents storage parts store 38 of contribution from the portable E-mail terminal 1 in addition to the already registered contents of contribution (S14). As for the data of the contents of contribution, a contributor name and a contributor mail address are contained. The registration processing section 39 is related with a contributor's address, gives contribution ID, and associates and memorizes this contribution ID and address. Furthermore, the registration processing section 39 takes out only a contributor name, the contents text data of contribution, and image data from each data memorized by the contents storage parts store 38 of contribution, and generates electronic bulletin board data from these. Each electronic bulletin board data is stored in the electronic bulletin board memory part 42 with contribution ID given to each.

[0026]When the processing which should be performed is an inspection, the registration processing section 39 performs processing for perusing the contents of contribution saved in the electronic bulletin board memory 42 of the server 3 (S15). That is, the data of the electronic bulletin board memory part 42 is read, and the HTML falsework 40 only for a terminal operates the Web page of an electronic bulletin board orthopedically, creates the HTML file which is a final processing result, and outputs to the portable E-mail terminal 1 of inspection request origin by the HTML output processing part 41 (S16). That is, the contents of the electronic bulletin board memory part 42 will be displayed on the portable E-mail terminal 1.

[0027]Next, in drawing 6, processing of the portable E-mail terminal 1 is explained. The HTML file outputted from the server 3 is downloaded, and it is made to display as a Web page on a browser in the portable E-mail terminal side (S17). At this time, a contributor name, the contents text data of contribution, and image data are displayed on the portable E-mail terminal 1, and a contributor's mail address is not contained in it. Each contents of contribution are related with the mail address recorded on the contents storage parts store 38 of contribution by contribution ID.

[0028]The HTML file created by the server 3 side is orthopedically operated by the form doubled with the display screen of one sheet of the display 1a of the portable E-mail terminal 1. Therefore, electronic bulletin board data can be perused, performing menu manipulation, such as scrolling and a page change, using the button on the Web page currently displayed on the screen (S18). (browsing)

[0029]Next, with reference to drawing 8, it faces using the electronic bulletin board service by the bulletin board system in an embodiment of the invention, and the processing using the menu only for server service is explained from the portable E-mail terminal 1. Drawing 8 is an explanatory view about the processing which used the menu only for server service. 17 is a browser. As shown in the highest rung of drawing 8, the server service button 17a on which GUI of the menu only for server service is displayed is built into the browser displayed in the display of the portable E-mail terminal 1. By clicking the server service button 17a, as shown in the second step of drawing 8, the electronic bulletin board corner name 17b of accessible various genres is displayed on a browser from the portable E-mail terminal 1. The user can choose the corner (corner A, B, and C) of the electronic bulletin board which is the target of registration or an inspection using this display screen. A user chooses an act by clicking a desired electronic bulletin board corner name.

[0030]If an electronic bulletin board corner name is chosen, it will be automatically connected to the server 3. For example, if the corner A is chosen, the address (URL) corresponding to this corner A will be acquired, and will be automatically connected to applicable URL. If the corner B is chosen, the address (URL) corresponding to the corner will be acquired, and it connects. After the portable E-mail terminal 1 is connected to applicable URL and processing by the server 3 is completed, an HTML file is outputted from the server 3, and as shown in the bottom of drawing 8, it is displayed on the browser of the portable E-mail terminal 1.

[0031]Electronic bulletin board registration processing is explained with reference to drawing 9. Drawing 9 is an explanatory view about the processing which used GUI only for registration. If the electronic bulletin board corner shown in the second step of drawing 8 is chosen from a server menu, the registration picture customized according to the size of the display screen of one sheet of the portable E-mail terminal 1 as shown in drawing 9 will be displayed on the display 1a by GUI only for registration. In the registration picture for exclusive use used for the bulletin board system utilization time in this invention, improvement in operativity is aimed at by storing the button etc. which direct all the functions in the display screen of one sheet.

[0032]The corner name (corner A) of the electronic bulletin board which the user chose is displayed on the field of a "corner." The character (user) registered into the server 3 as a contributor is displayed on the "contributor" field. The "message" field on the left-hand side of a screen is a column which inputs a message, and inputs characters, such as "kana", a "Chinese character", "katakana", ["alphanumeric"], and a "sign", into this field by starting the editor of the portable E-mail terminal 1. The "picture" field is a column which specifies the picture attached to an electronic bulletin board, displaying the picture saved at the image memory within the portable E-mail terminal 1. By incorporating the image data saved in the portable E-mail terminal 1, it becomes possible to register not only a character but a picture to the electronic bulletin board of the server 3.

[0033]With "registration" button 18 of the screen lower berth, the data inputted on the screen is transmitted to the server 3. In the server 3 side, all the contents of contribution registered exist as one file in the electronic bulletin board memory 42, and the contents of contribution from the user of the portable E-mail terminal 1 have structure added in order of registration. Thus, when operation of registration of a message, incorporation of a picture, registration, etc. uses GUI only for registration stored in the display screen of one sheet, the conventional complicated menu manipulation is omission.

[0034]Next, with reference to drawing 10, how to peruse the contents of contribution accumulated in the server 3 side by the browser of the portable E-mail terminal 1 is explained. Drawing 10 is an explanatory view about the message inspection processing by the browser of the portable E-mail terminal 1.

[0035]If an inspection is chosen with a server menu and the corner (corner A, B, and C) of an

electronic bulletin board is chosen further, an inspection processing start will be carried out. That is, it is automatically connected to the server 3 and the data of the electronic bulletin board memory part 42 in the server 3 is read, and the HTML falsework 40 only for a terminal operates the Web page of an electronic bulletin board orthopedically, and outputs to the portable E-mail terminal 1 of inspection request origin by the HTML output processing part 41. The server 3 performs plastic surgery processing of the layout displayed per one affair in the display screen of one sheet of the display 1a of the portable E-mail terminal 1. The data of the contents of contribution outputted by the HTML output processing part 41 is displayed on the browser of the portable E-mail terminal 1, as shown in drawing 10.

[0036]In drawing 10, it is created by the server 3 so that the data of a corner name (for example, the corner A), a contributor name (for example, user), a message, a picture, etc. may be settled in the display screen of one sheet of the display 1a. It is embedded at this HTML file so that the link button for perusing the contents front of contribution currently perused and the following contents of contribution may also be settled in the display screen of one sheet, and a user only clicks that button and it becomes possible to peruse every one contents of contribution. A contributor's mail address is not displayed.

[0037]Next, answer processing is explained based on drawing 10 and drawing 11. The button 19 on which GUI for an answer is displayed as shown in drawing 10 is incorporated. By clicking the button 19, as shown in drawing 11, GUI for an answer is displayed on the browser of the portable E-mail terminal 1. Other users who perused the electronic bulletin board can input the message for an answer using this display screen. For example, it is displayed on GUI for an answer that it fits in the display screen of one sheet of transmission button 20 grade ** for directing the selection button for choosing a corner name, a contributor, a message input division, an image display division, and a picture and transmission.

[0038]For example, if other users who perused the electronic bulletin board click the button 19 in the state where the contents of a notice of the contributor:user are displayed, in drawing 10 when it is going to answer to contributor:user of the corner A, The contributor: GUI for an answer for answering user is displayed (drawing 11). In this state, a user inputs a response message, and chooses and displays the picture to attach.

[0039]When a user clicks the transmission button 20, transmission of the contents of an answer is started. That is, it is automatically connected to the server 3 and the response message and attached image which the user inputted are sent to the server 3. Both contribution ID given to each contents of contribution is also sent to the server 3.

[0040]As mentioned above, it related with contribution ID, each contributor's address is memorized, and the registration processing section 39 searches a contributor's address with the server 3 from contribution ID sent with a response message from the portable E-mail terminal 1. If a contributor's address is acquirable, the registration processing section 39 processes transmission so that it may send the above-mentioned response message to the address of the contributor concerned.

[0041]Although the contents of contribution were considered as the composition received by E-mail in this invention, this invention is effective even if it uses means other than E-mail.

[0042]Although the answer from an answer person was considered as the composition received by E-mail in this invention, this invention is effective even if it uses means other than E-mail. Although the answer to a contributor was considered as the composition sent using E-mail in this invention, this invention is effective even if it uses means other than E-mail.

[0043]Although it had composition using a contributor name in this invention, it is not necessary to not necessarily display a contributor name. Although the answer person's mail address was considered as the composition of which a contributor is notified in this invention, this invention is effective also when choosing the case where it does not notify, and a notice.

[0044]

[Effect of the Invention]According to the bulletin board system of this invention, the contributor can receive the answer of the contents of contribution as mentioned above, without exhibiting one's mail address.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]The block diagram showing the bulletin board system in the embodiment of the invention 1

[Drawing 2]The device block figure of the bulletin board system in the embodiment

[Drawing 3]A flow chart when contributing to the bulletin board system in the embodiment

[Drawing 4]A flow chart when taking out an answer to the contents of contribution of the bulletin board system in the embodiment

[Drawing 5]The schematic diagram showing the bulletin board system in the embodiment of the invention 2

[Drawing 6]The flow chart which shows processing of the portable E-mail terminal in the bulletin board system in the embodiment of the invention 2

[Drawing 7]The flow chart which shows the processing by the side of the server of the bulletin board system in the embodiment

[Drawing 8]The explanatory view about processing using the menu only for server service of the bulletin board system in the embodiment

[Drawing 9]The explanatory view about processing using GUI only for registration of the bulletin board system in the embodiment

[Drawing 10]The explanatory view about the message inspection processing by the browser of the portable E-mail terminal 1 of the bulletin board system in the embodiment

[Drawing 11]The explanatory view about processing using GUI for an answer of the bulletin board system in the embodiment

[Description of Notations]

101 The contents storage parts store of contribution

102 Electronic bulletin board data generating part

103 Mail address retrieval part

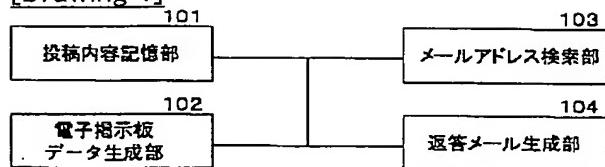
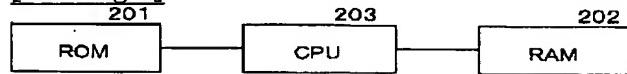
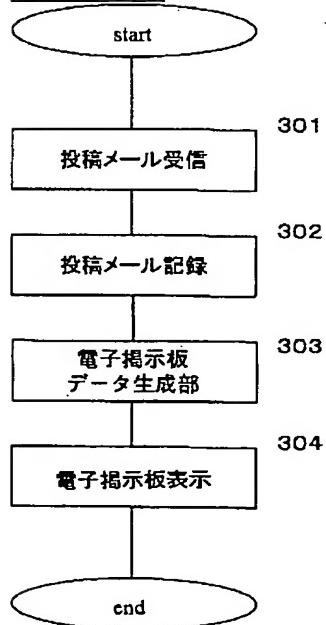
104 Answer mail generation part

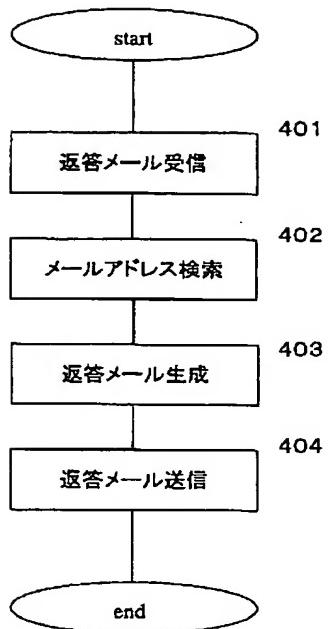
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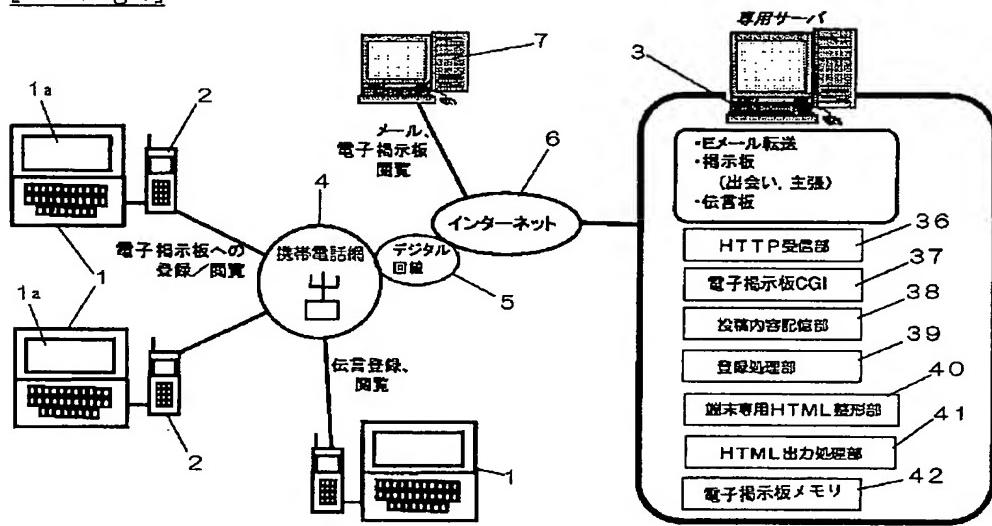
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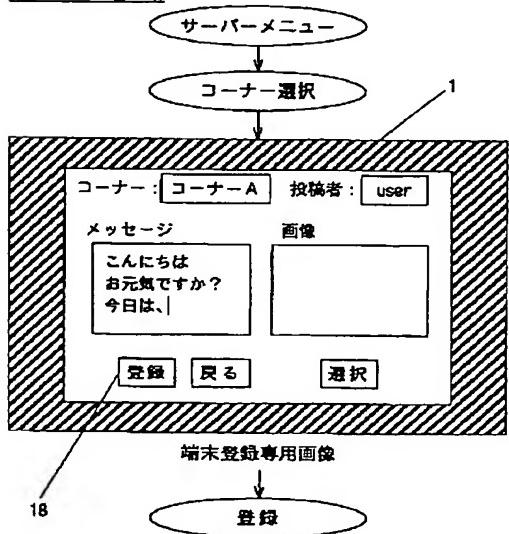
DRAWINGS**[Drawing 1]****[Drawing 2]****[Drawing 3]****[Drawing 4]**



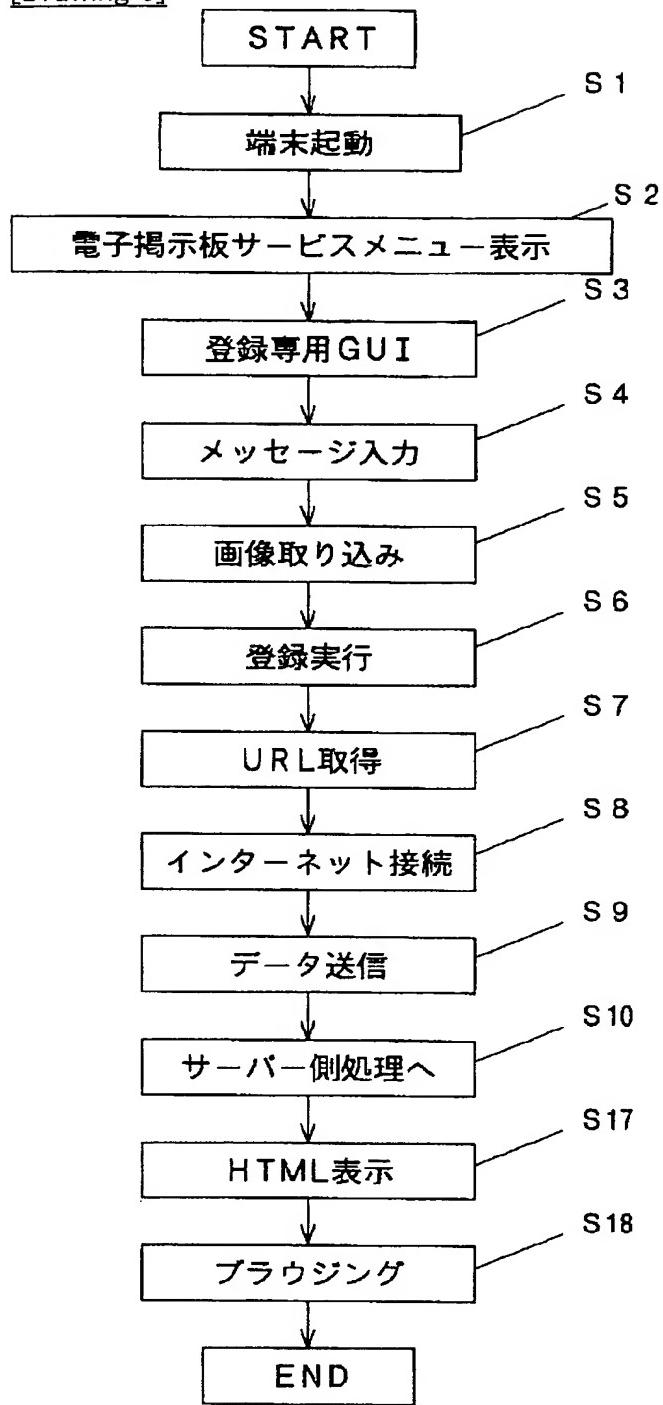
[Drawing 5]



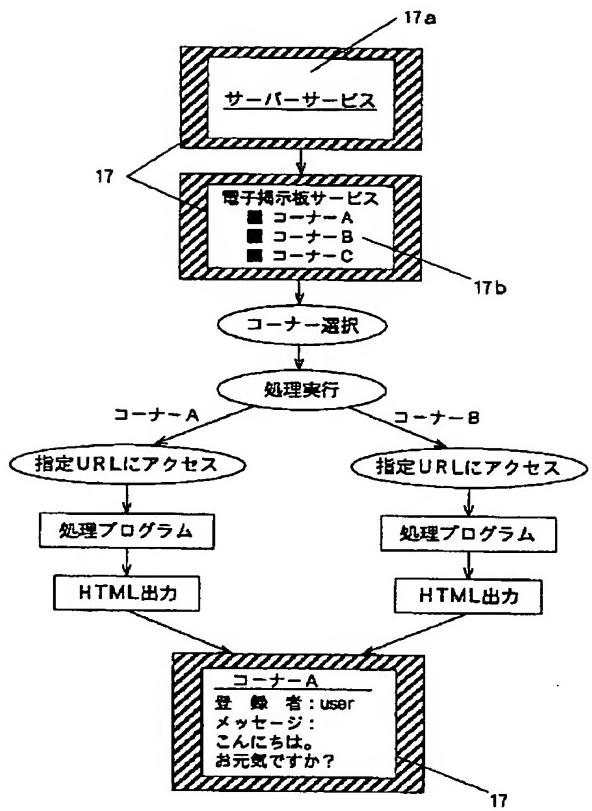
[Drawing 9]



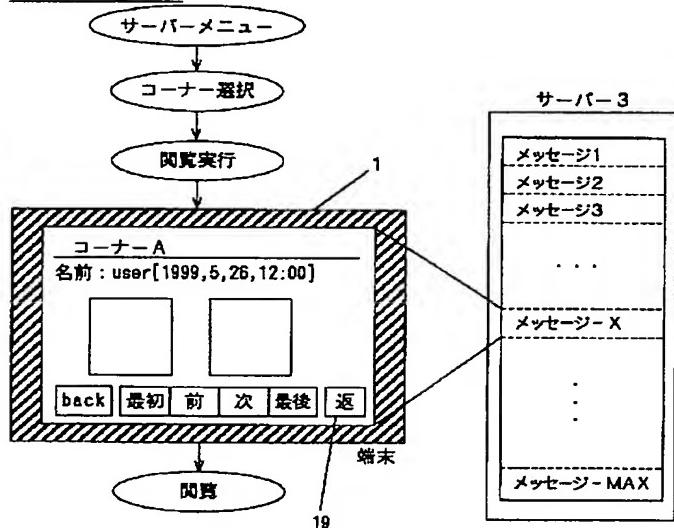
[Drawing 6]



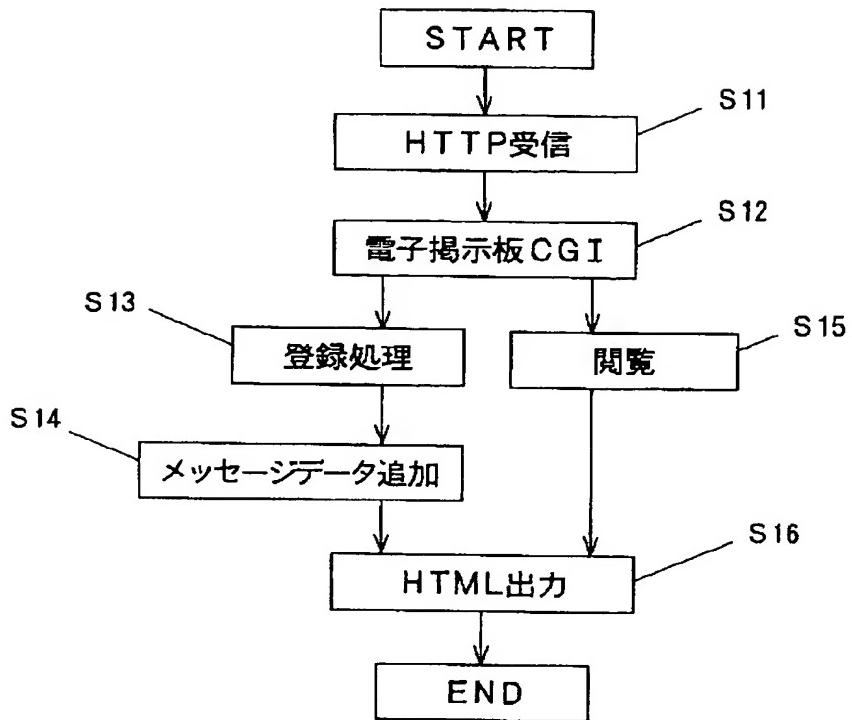
[Drawing 8]



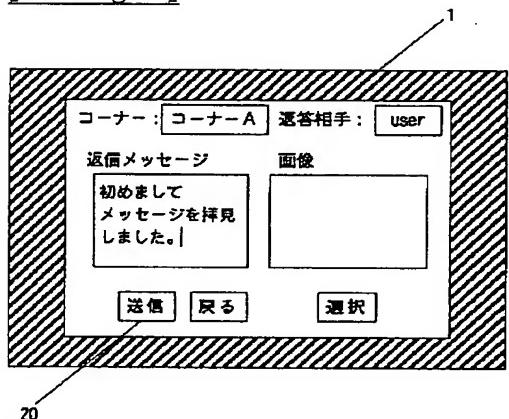
[Drawing 10]



[Drawing 7]



[Drawing 11]



[Translation done.]

PATENT ABSTRACTS OF JAPAN

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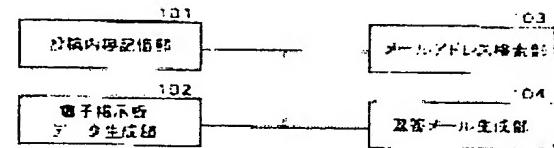
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(54) ELECTRONIC BULLETIN BOARD SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To solve the problem that a conventional bulletin board system requires that a mail address should be made open to get a reply.

SOLUTION: This system has a means which gives a contributing ID to bulletin data, a title, and an address contributed to a bulletin board and a main address retrieval part which retrieves the mail address of a contributor from a registered ID sent through the replying operation of a browsing requester; and bulletin contents are sent to the browsing requester while having the contributor mail address kept secret, the mail address of the contributor is retrieved according to the registered ID sent through the replying operation when the browsing requester requests a reply, and reply mail is sent from an answerer to the obtained address, so that the contributor can gets the reply without making the mail address open on the Internet.



出力処理部41)を起動させ、処理を開始する(S1)

まれている。サーバサービスボタン17aをクリックす

の煩雜な画面操作を省略することができます。

セーフや添付画像がサーバに送られる。また各投票内

[0025] 行うべき処理が電子掲示板への新規登録の

答に付与されている投稿IDも共にサーバ3に送られ

[0040] 前述のようでは投稿IDに開闊付けて各投稿者のアドレスを記憶しており、登録処理部により返答メッセージと共に送られる投稿IDにより投稿者のアドレスを検索する。登録

[0041] ル端末1のブラウザによるメッセージ閲覧処理について説明する。図10は複数Eメールを閲覧する方法について説明する。図10は複数Eメール端末1のブラウザによるメッセージ閲覧処理についての説明図である。

[0042] [0043] サーバメニューにより閲覧が選択され、さ

返答メッセージを当該構成者のアドレスへ送るべく、送信の処理をおこなう。

【004】なお、本説明では投稿内容をEメールで受け取る構成したが、Eメール以外の手段を用いても本システムは対応する。

【004】なあ、本分明では投稿内容をEメールで受取る構成したが、Eメール以外の手段を用いても本分明では投稿者のアドレスへ送るべく、送医局にメッセージを当該投稿者の処理をおこなう。

「003 6」投球10において、コーナー名（例は「バー」）、メッセージコード（例は「A」）等が表示装置1aの一般的な表示画面面に吸収されるようにサーバーによって作成される。また、この外の手段を用いても本発明は有効である。

【004 3】本発明では投擲者名を使う構成としたが、必ずしも投擲者名を表示させる必要はない。また本発明では選手のメールアドレスを投擲者名に通知する構成としたが、通知しない場合や通知する場合も本発明

HTMLファイルには、閲覧している投稿内容の前や次の投稿内容を閲覧するためのリンクボタンも一枚の表示画面内に取まるようになります。利用者はそのボタンをタップしただけで、投稿内容を一つずつ閲覧していくことが可能となる。なぜか、投票者のメールアドレスは、投稿者は自分のメールアドレスを公開するため、投票者は自分のメールアドレスを公開することができるのです。

【図面の簡単な説明】
 【図1】本発明の実施の形態1における電子掲示板システムを示すブロック図
 【図2】同実施の形態における電子掲示板システムの接続構成図

【図面3】次に返答処理について、図10および図11に基づいて説明する。図10C表示より返答用GU30を示すボタン19が組み込まれている。ボタン11を表示させるボタン19が組み込まれている。

【図面4】次に返答処理について、図10および図11に基づいて説明する。図10C表示より返答用GU30を示すボタン19が組み込まれている。ボタン11を表示させるボタン19が組み込まれている。

【図面の簡単な説明】
[図1] 本発明の実施の形態1における電子掲示板システムを示すプロック図
[図2] 同実施の形態における電子掲示板システムの構

【図3】返答用GUIが連携Eメール端末1のブラウザ上に表示される。電子掲示板を開覧した他の利用者はこの表示画面を用いて、返答のためのメッセージを入力することができます。例えば返答用GUIには、コーナー名、投稿種別などの入力欄があります。

【図4】同実施形態における電子掲示板システムに投稿するときのフローチャート

【図5】同実施形態における電子掲示板システムの投稿内容に返答を出すときのフローチャート

〔図3〕同実施の形態における電子掲示板システムに投資するときのフローチャート

図1-1 本説明の実施の形態2における電子掲示板システムを示す框図

【図 7】同実施の形態における電子掲示板システムのサ
ーバ側の処理を示すフローチャート

【図 8】同実施の形態における電子掲示板システムのサ
ーバーアクセス専用メニューを用いた処理についての説明

図 7) 同実施の形態における電子掲示板システムのサバーバ側の処理を示すフローチャート

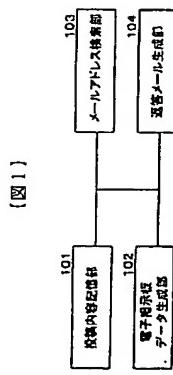
図 8) 同実施の形態における電子掲示板システムのサバーバー専用メニューを用いた処理についての説明

【図9】実施の形態における電子掲示板システムの登録専用GUIを用いた処理についての説明図

【図10】同実施の形態における電子掲示板システムの操作専用GUIを用いた処理についての説明図

図 9) 同実施の形態における電子掲示板システムの登録専用 GUI を用いた処理についての説明図
 図 10) 同実施の形態における電子掲示板システムの登録専用 GUI の操作手順

* 101	投票内容記憶部
102	電子表示板データ生成部
103	メールアドレス検索部
104	返答メール生成部
*	



(図3) (図4)

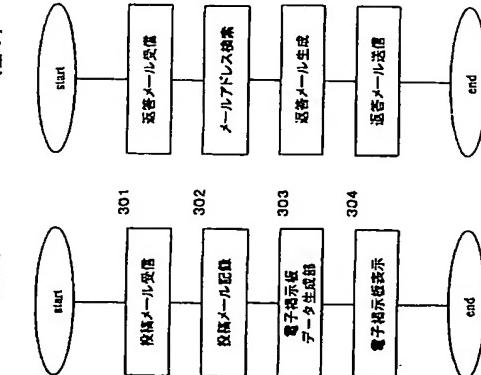
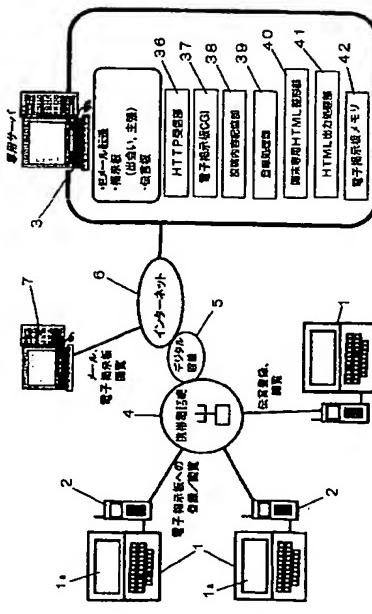
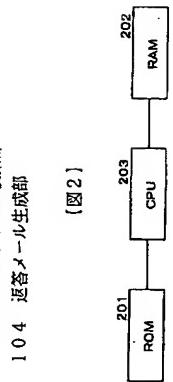


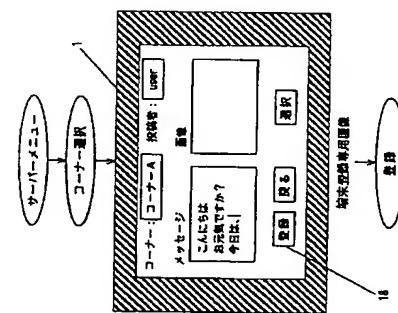
图5-1



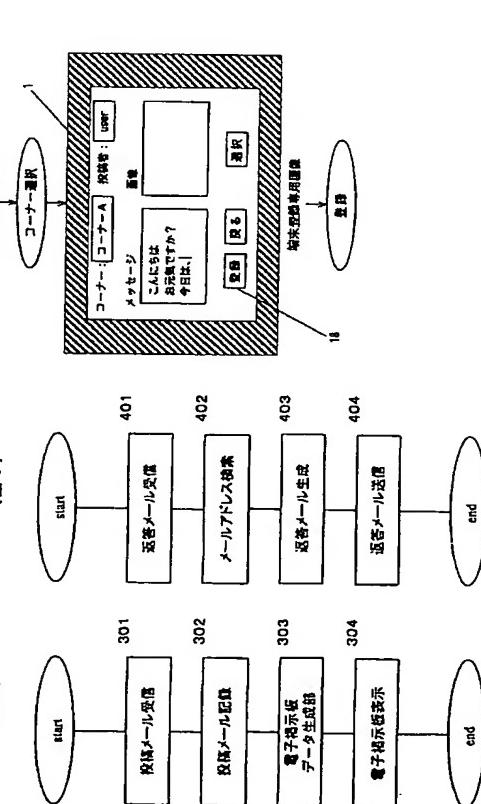
[図6] [図8]



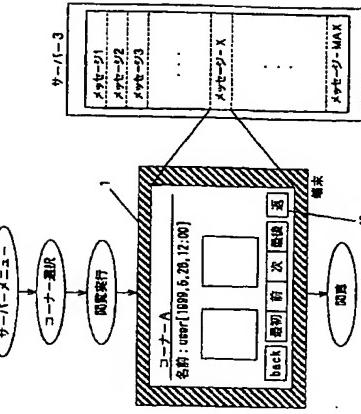
四



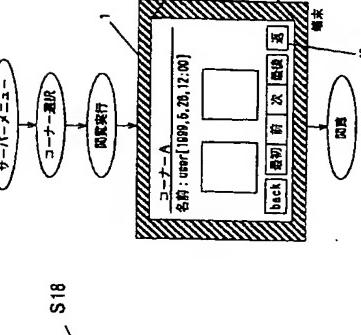
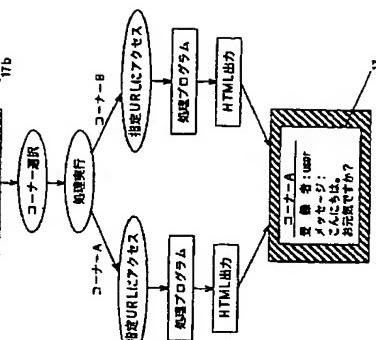
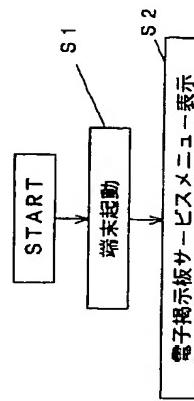
41



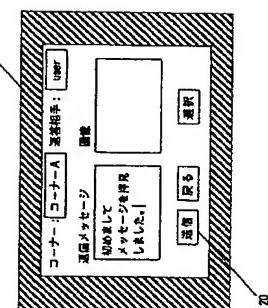
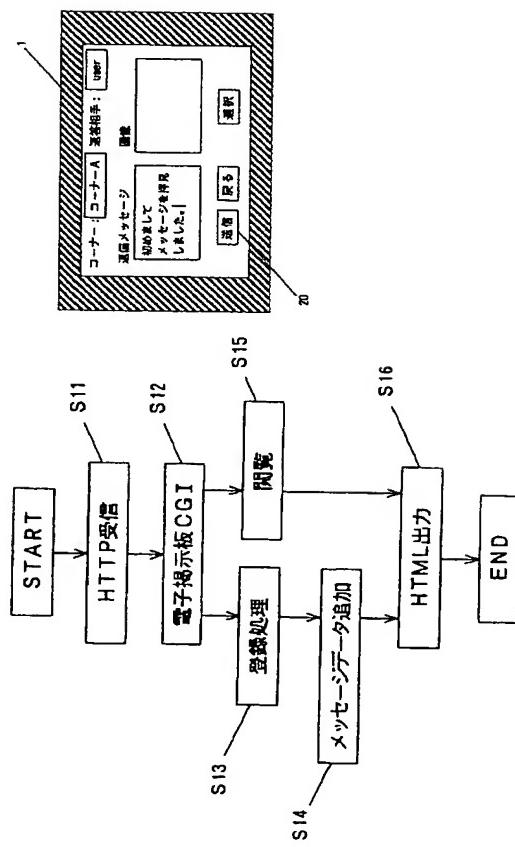
3



(図6)



[図7]



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KK56 LL03